ABSTRACT:

HAPS has cropped up as a neoteric technology in the wireless communications field in recent years. The straightforwardness with which HAPS gets along with a telephone network service provider or the Internet, has made it to a unique feature of future wireless networks. Most HAPS' criteria have been well circumscribed by the International Telecommunication Union (ITU) or subscribed to in World Radiocommunication Conferences (WRCs). This procedure will prolong to function the various frequency ranges in future, most notably in WRC-12. To curb and clarify assessment probe, it should be explicated that FSS links are sited in C-Band frequency range to condense overwhelming conceivable propagation attenuation attributable to disproportionate rain amount in tropical and subtropical regions. Consequently, FSS uplink is ranged between 5925 and 6725 MHz. Where as, HAPS gateway links' frequency range is delineated between 5850 and 7075 MHz. Hence, FSS uplink intervenes with HAPS frequency range partially. Accordingly, HAPS spectrum sharing with FSS uplink in the Frequency range 5850-7075 MHz is appraised at this juncture. HAPS spectrum implementing in alluded frequency range instigates interference renowned as Co-Channel Interference (CCI). CCI reckoning is based upon Spectrum Emission Masks (SEM), Antennas' Radiation Pattern and Clutter Loss. The co-channel frequency deployment prospects are delved at this article.